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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/708,489	03/07/2004	YUAN-HSUN CHANG	12447-US-PA	2488	
	31561 7590 06/15/2006 JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE			EXAMINER HAN, YOUNGHUIE JESSICA	
7 FLOOR-1, NO. 100 ROOSEVELT ROAD, SECTION 2 TAIPEI. 100			ART UNIT	PAPER NUMBER	
			2838		
TAIWAN	TAIWAN			DATE MAILED: 06/15/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/708,489	CHANG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Y. J. Han	2838	
The MAILING DATE of this communication	on appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR IN WHICHEVER IS LONGER, FROM THE MAILI - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica. If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, be Any reply received by the Office later than three months after the earned patient term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNI CFR 1.136(a). In no event, however, may a tion. period will apply and will expire SIX (6) MO we shall to cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
tatus			
1) Responsive to communication(s) filed or	n		
2a)⊠ This action is FINAL . 2b)[This action is non-final.		
3) Since this application is in condition for a	allowance except for formal ma	tters, prosecution as to the merits is	
closed in accordance with the practice u	nder <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.	
isposition of Claims			
4)⊠ Claim(s) <u>1-8</u> is/are pending in the applic	ation.		
4a) Of the above claim(s) is/are w			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-8</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction	and/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Ex	xaminer.		
10)⊠ The drawing(s) filed on <u>07 March 2004</u> is	s/are: a)⊠ accepted or b)□ o	bjected to by the Examiner.	
Applicant may not request that any objection	n to the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the	correction is required if the drawing	ed Office Action or form PTO-152	
11)☐ The oath or declaration is objected to by	the Examiner. Note the attach	ed Office Action of form F 10-132.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for	foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) All b) Some * c) None of:			
 Certified copies of the priority do 			
2. Certified copies of the priority do	cuments have been received in	Application No	
3. Copies of the certified copies of t		en received in this National Stage	
application from the International	Bureau (PCT Rule 17.2(a)).	at reaching	
* See the attached detailed Office action for	1:-4 -646		

Notice of References Cited (PTO-892)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date ______.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application (PTO-152)

6) Other: ____.

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 5-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Ooishi (5,689,460).

Ooishi discloses a voltage regulator apparatus, comprising: a voltage regulator having a output terminal to provide an output voltage regulated according to a reference voltage (Vref); a first transistor (N3) having a first terminal coupled to a positive terminal of a voltage source (node 1), a second terminal coupled to a first bias (Vcnn), and a third terminal (node 6) coupled to the output terminal (5) of the voltage regulator; and a second transistor (P3) having a first terminal (node 6) coupled to the third terminal of the first transistor, a second terminal coupled to a second bias (Vcpp), and a third terminal coupled to a negative terminal (Vss) of the voltage source. See figure 11. Note that N3 is an NMOS transistor and P3 is a PMOS transistor.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ooishi (5,689,460) in view of the acknowledged prior art.

Ooishi discloses the invention substantially as claimed but does not disclose an error amplifier connected to the structure recited in claim 1. The acknowledged prior art clearly teaches that the use of error amplifier is well known in the art. Figure 2 discloses explicitly an error amplifier having a positive input terminal, a negative input terminal, and an output terminal, wherein the negative input terminal is for receiving the reference voltage; a third transistor having a first terminal coupled to the positive terminal of the voltage source, a second terminal coupled to the output terminal of the error amplifier, and a third terminal outputting the regulated output voltage; and a load circuit used to divide the regulated output voltage, and provide a feedback voltage to the positive terminal of the error amplifier; wherein the load circuit comprises: a first resistor having a first terminal to receive the regulated output voltage, and a second terminal to output the feedback voltage to the positive terminal of the error amplifier; and a second resistor having a first terminal coupled to the second terminal of the first resistor, and a second terminal coupled to the negative terminal of the voltage source. Therefore, it would have been obvious to one having ordinary skill in the art to employ the error amplifier of the acknowledged prior art in Ooishi to obtain the claimed invention for the purpose of providing stable output voltage.

Response to Argument

The applicant's argument directed to the differences between the instant invention and the applied reference has been fully considered but is not deemed to be persuasive as applied to the claims.

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Applicant contends that Ooishi does not disclose "a third terminal coupled to the output terminal of the voltage regulator" as set forth in claim 1. Specifically, applicant points out that the node 6 is coupled to the gate of the transistor 2 having a drain terminal coupled to the item 5. In other words, the node 6 is not directly coupled to the item 5. However, the claims do not call for the third terminal (node 6) to be directly coupled to the output terminal (item) of the voltage regulator. The claims merely call for the third terminal to be coupled to the output terminal, even though they are coupled through the transistor 2. Hence, claims fail to set forth any structure which is different from the structure disclosed in Ooishi.

As for applicant's argument that Ooishi "does not provide a feedback voltage feedback to the comparator," one cannot show non-obviousness by attacking the primary reference only where, as here, the rejection to claim 2 is based on combination of references. Besides, the voltage feedback feature is well known feature disclosed in the acknowledged prior art. Fig. 2 of the acknowledged prior art discloses that such feature is clearly old and well known in the art.

Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Y. J. Han whose telephone number is 571-272-2078. The examiner can normally be reached on Mon-Fri 6:30am-3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl Easthom can be reached on 571-272-1989. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

J. Han

Primary Examiner Art Unit 2838